Datasheet for ABIN3043598

anti-c-MYC antibody (AA 257-439)

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Overview

Quantity:	100 µg
Target:	c-MYC (MYC)
Binding Specificity:	AA 257-439
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Myc proto-oncogene protein(MYC) detection. Tested with WB in Human,Rat.
Immunogen:	E.coli-derived human c-Myc recombinant protein (Position: E257-A439). Human c-Myc shares 91% amino acid (aa) sequences identity with both mouse and rat c-Myc.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Myc proto-oncogene protein(MYC) detection. Tested with WB in Human,Rat. Gene Name: v-myc avian myelocytomatosis viral oncogene homolog Protein Name: Myc proto-oncogene protein
Purification:	Immunogen affinity purified.

Target Details

Target:	c-MYC (MYC)
Alternative Name:	Myc Proto-Oncogene protein (MYC Products)
Background:	C-Myc is an oncogene that functions both in the stimulation of cell proliferation and in apoptosis. C-Myc elicits its oncogenic activity by causing immortalization, and to a lesser extent the transformation of cells, in addition to several other mechanisms. The c-MYC proto-oncogene encodes a transcription factor that is critical for cell growth and proliferation. It is one of the genes frequently altered in cancer cells in which it exhibits constitutive activity. Downregulation of c-Myc is critical for 2-Methoxyestradiol (2ME2)-induced oxidative stress and apoptosis in AML cells. And its up-regulation is important for promoting lymphocyte cell division, and demonstrating that GFP-c-Myc expression is a marker of proliferating lymphocytes in vivo. Synonyms: AU016757 antibody|Avian myelocytomatosis viral oncogene homolog antibody|bHLHe39 antibody|c Myc antibody|c Myc Epitope Tag antibody|c Myc Tag antibody|Class E basic helix-loop-helix protein 39 antibody|MRTL antibody|Myc antibody|Myc Epitope Tag antibody|Myc protein antibody|Myc proto oncogene protein antibody|Myc proto-oncogene protein antibody|myc-related translation/localization regulatory factor antibody|MYC_HUMAN antibody|Myc2 antibody|MYCC antibody|Myelocytomatosis oncogene antibody|Niard antibody|Nird antibody|Oncogene Myc antibody|OTTHUMP00000158589 antibody|Proto-oncogene c-Myc antibody|Protooncogene homologous to myelocytomatosis virus antibody|RNCMYC antibody|Transcription factor p64 antibody|Transcriptional regulator Myc-A antibodyV-Myc avian myelocytomatosis viral oncogene homolog antibody|v-myc myelocytomatosis viral oncogene homolog (avian) antibody
Gene ID:	4609
UniProt:	P01106
Pathways:	p53 Signaling, Cell Division Cycle, Sensory Perception of Sound, Transition Metal Ion Homeostasis, Mitotic G1-G1/S Phases, Positive Regulation of Endopeptidase Activity, Regulation of Carbohydrate Metabolic Process, Positive Regulation of Response to DNA Damage Stimulus, Warburg Effect

Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for c-Myc is approximately 0.25 ng/lane under reducing conditions.

Application Details

	Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

Publications

Product cited in:	Mao, Lu, Wang, Tian, Huang, Feng, Zhang, Chang: "Role of PI3K p110β in the differentiation of human embryonic stem cells into islet-like cells." in: **Biochemical and biophysical research communications**, Vol. 488, Issue 1, pp. 109-115, (2017) (PubMed). Wang, Zhou, Zhang, Wu, Zhang, Zhang: "Identification and localization of gastrointestinal hormones in the skin of the bullfrog Rana catesbeiana during periods of activity and hibernation." in: **Acta histochemica**, Vol. 116, Issue 8, pp. 1418-26, (2014) (PubMed). Chen, He, Peng, Liu, Jin, Cao, Wang, Xiao: "An immunohistochemical study of somatostatin in the stomach and the small intestine of the African ostrich (Struthio camelus)." in: **Tissue & cell**, Vol. 45, Issue 6, pp. 363-6, (2013) (PubMed).

Publications

Jiang, Deng, Duan, Chen, Xiang, Lu, Ma: "Somatostatin receptors SSTR2 and SSTR5 are expressed in the human thoracic duct." in: **Lymphology**, Vol. 44, Issue 1, pp. 21-8, (2011) (PubMed).

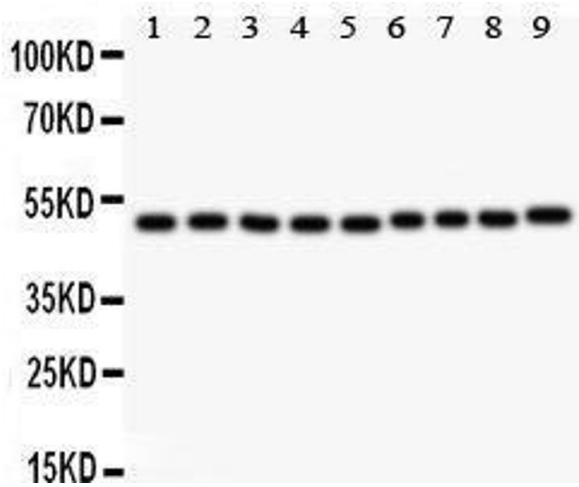
Zong, Chen, Zhang, Zou: "Effects of intra-gastric beta-casomorphin-7 on somatostatin and gastrin gene expression in rat gastric mucosa." in: **World journal of gastroenterology**, Vol. 13, Issue 14, pp. 2094-9, (2007) (PubMed).

There are more publications referencing this product on: Product page

Validation report #300031 for Immunohistochemistry (IHC)

Western Blotting

Image 1. Anti-c-Myc Picoband antibody, All lanes: Anti C-MYC at 0.5ug/ml WB: Recombinant Human C-MYC Protein 0.5ng Predicted bind size: 44KD Observed bind size: 44KD



Western Blotting

Image 2.